Resolución AbC

11- Agosto

Tema #1

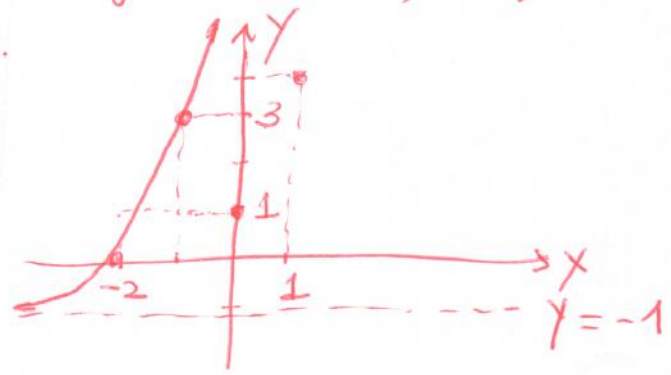
$f(x) = 4^{x+2} - 1$

a. $y = -1$

b. $\text{dom } f = \mathbb{R}$

$\text{rg } f = (-1, +\infty)$

c.



Tema #2

a. $g(x) = 3^{-(x-0)} - 3$

$= 3^{-x} - 3$

b. $g(0) = 3^{-0} - 3$

$= 1 - 3$

$= 2$

c. $g(x) = 6$

$3^{-x} - 3 = 6$

$3^{-x} = 9$

$3^{-x} = 3^2$

$-x = 2$

$x = -2$

Tema #3

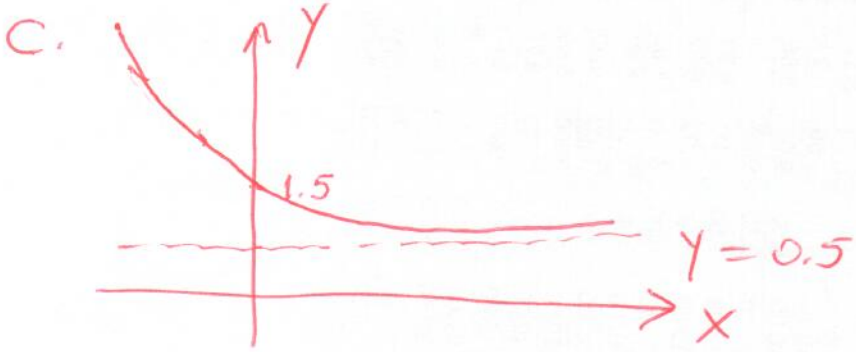
a. $\frac{1}{2}^{(-1)} + A = 2.5$

$2 + A = 2.5$

$A = 0.5$

b. $f(x)$ es decreciente.

c.



Tema #4

$f(x) = \left(\frac{1}{4}\right)^{-(x-3)} - 1$

a. $\begin{pmatrix} 3 \\ -1 \end{pmatrix}$

b. $\text{dom } f = \mathbb{R}$

$\text{rg } f = (-1, +\infty)$

c. $f(x) = 0$

$\left(\frac{1}{4}\right)^{-x+3} - 1 = 0$

$\left(\frac{1}{4}\right)^{-x+3} = 1$

$\frac{1}{4}^{-x+3} = \frac{1}{4}^{0}$

$-x + 3 = 0$

$x = 3$